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A STUDY ON COMPARATITIVE ANALYSIS OF EFFICIENCY OF INDIAN DAIRY INDUSTRY

Atif Mahmood

Data Collection

The research is based on secondary data collected from websites and published materials.

3 diary companies were chosen as a sample size (KWALITY, AMUL, and MOTHER DAIRY)

ANOVA, or analysis of variance, is a collection of statistical models used to compare group means and their associated procedures (such as variation among and between groups).

OBJECTIVES OF THE STUDY

To analyse whether there are any significant differences in the profitability ratio of three selected dairy companies.

SCOPE OF THE STUDY

☐ The scope of the study is limited to three companies in the dairy industry, and the study period is from 2011 to 22018

HYPOTHESES

- H1: There is significance difference between working capital turnover ratios of Indian dairy companies.
- H2: There is significance difference between fixed asset turnover ratios of Indian dairy
- H3: There is significance difference between total asset turnover ratios of Indian dairy companies.

Table 1: Test of Homogeneity of Variances

	Levene Statistic	qtı	df2	Sig.
Working capital turnover	4.195	2	21	0.029
Fixed asset turnover	20.49	2	21	0.00
Total asset turnover	19.392	2	21	0.00
Inventory turnover	4.96	2	21	0.017

Table 2: ANOVA **Outputs of Efficiency** Ratio.

		Sum of Square s	Df	Mean Square	F	Sig.
	Between Groups	4471.67 5	2	2235.837	0.849	0.442
Working capital turnover	Within Groups	55321.5 3	21	2634.359		
	Total	59793.2	23			
	Between Groups	1272.77	2	636.385	224.66 5	0.081
Fixed asset turnover	Within Groups	4717.96 5	21	224.665		
	Total	5990.73 5	23			
	Between Groups	31.299	2	15.65	30.073	0.00
	Within Groups	10.928	21	0.52		
Total asset turnover	Total	42.227	23			
	Between Groups	2004.1	2	1002.05	69.497	0.00
	Within Groups	302.79	21	14.41 <mark>9</mark>		/
Inventory turnover	Total	2306.89	23			
	U		/	130	R	

Table 3: Post Hoc Output of Efficiency Ratio

Dependent (I) (I) Mean Sign							
Variable	VAR00006	VAR00006	Difference	Std.	Sig.		
			(I-J)	Error		95% Confidence Interval	
						Titlet var	
							Upper Bound
		Kwality	-32.75715	25.663	0.424	-97.4425	31.9283
	Amul	Mother	-22.18081	25.663	0.668	-86.8662	42.5046
		Dairy					
		Amul	32.75715	25.663	0.424	-31.9283	97.4425
	Kwality	Mother	10.57633	25.663	0.911	-54.1091	75.2617
Working Capital	7957	Dairy					
Turnover Ratio		Amul	22.18081	25.663	0.668	-42.5046	86.8662
	Mother Dairy	Kwality	-10.57633	25.663	0.911	-75.2617	54.1091
			10.57055	23.003	0.711	-73.2017	54.1071
		Kwality	-17.77474	7.49441	0.068	-36.6649	1.1155
	Amul	Mother	-7.58805	7.49441	0.577	-26.4783	11.3021
		Dairy					
1		Amul	17.77474	7.49441	0.068	-1.1155	36.6649
F 1.4	Kwality	Mother	10.18669	7.49441	0.38	-8.7035	29.0769
Fixed Asset Turnover Ratio	Trwanty	Dairy					
Turnover Katio		Amul	7.58805	7.49441	0.577	-11.3021	26.4783
	Mother Dairy	Kwality	-10.18669	7.49441	0.38	-29.0769	8.7035
			-10.10007	7.42441	0.56	-29.0709	6.7033
		Kwality	0.48036	0.36069	0	1.7176	3.5359
	Amul	Mother		0.36069	0.394	-1.3895	0.4288
		Dairy	2.6267				
1		Amul	-0.48036	0.36069	0	1.2372	3.0555
Total Asset	Kwality	Mother	2.14635*	0.36069	0	-3.5359	-1.7176
1 Otal Asset	,	Dairy					

	Turnover Ratio	Mother Dairy	Amul	-2.6267	0.36069	0	-3.0555	-1.2372
			Kwality	-2.14635*	0.36069	0	-3.0555	-1.2372
			Kwality	-14.25908 [*]	1.89859	0	-19.0446	-9.4736
		Amul	Mother	7.81294*	1.89859	0.001	3.0274	12.5985
-			Dairy					
		Kwality	Amul	14.25908*	1.89859	0	9.4736	19.0446
	Inventory Turnover Ratio		Mother	22.07202*	1.89859	0	17.2865	26.8575
			Dairy					
			Amul	-7.81294 [*]	1.89859	0.001	-12.5985	-3.0274
		Mother Dairy	Kwality	-22.07202*	1.89859	0	-26.8575	-17.2865

The mean difference is significant at the 0.05 level.

In the above table no.2, for working capital turnover ratio, P value 0.442 which is less than 0.05, so alternative hypothesis is accepted at 5% level of significance. Hence it concludes that there is no significance difference between working capital turnover ratios of Indian dairy industry.

For the fixed asset turnover ratio, p value .081 is more than 05, so null hypothesis is accepted at 5% level of significance. Hence it concludes that there is no significance difference between fixed asset turnover ratios of Indian dairy industry.

For the total asset turnover ratio, p value .000 is lehan .05. so null hypothesis is rejected at 5% level significance. Hence it concludes that there is significance difference between total asset turnover ratios of Indian dairy industry.

For Inventory turnover ratio, p value .000 is less than .05, so null hypothesis is rejected. Hence it concludes that there is significance difference between inventory turnover ratios of Indian dairy industry.

Post Hoc Test

A stepwise multiple comparison procedure were used to Identify sample means that are significantly different from each other. The Results from one way Anova do not indicate which of three groups differ from one another, so in many cases the post hoc analysis is done.

Table 3. shows the Post hoc output of Working capital turnover ratio, Fixed asset turnover ratio, Total Asset Turnover Ratio, and Inventory Turnover Ratio. In case of Working capital turnover ratio, Fixed asset turnover ratio, Amul, Sudha, and Mother dairy has no significant relationship with each other as the P- Value (0.424) which is more than 0.05 in maximum cases. But in case of Total asset turnover ratio and Inventory turnover ratio there is a significant relationship between Sudha, Amul, and Mother Dairy, As the P value is less than 0.05 that is 0.00 and 0.001.

